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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/897,628	07/02/2001	John D. Frazier	9570	2252

26890 7590 06/15/2005

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EXAMINER

NALVEN, ANDREW L

ART UNIT	PAPER NUMBER
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2134

DATE MAILED: 06/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/897,628

Applicant(s)

FRAZIER ET AL.

Examiner

Andrew L. Nalven

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 February 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-23 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-23 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 18 February 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 1-23 are pending.

Response to Arguments

2. Applicant's arguments filed 18 February 2005 have been fully considered but they are not persuasive.
3. Applicant has argued on page 6 that the Barkley reference (US Patent No. 6,202,066) fails to teach or suggest a user-defined data type. Examiner respectfully disagrees. Barkley teaches a user defined data type (Barkley, column 11 lines 20-25) in the form of deposit account information or employee information. A user creates information of this type. Barkley further teaches that objects (user defined data types) are written by users (Barkley, column 11 lines 40-56). Thus, Barkley teaches a data type that is created as a result of a user and is thus a teaching of a user-defined data type.
4. Applicant has argued on pages 6-7 that Barkley fails to teach or suggest a secure data type. Examiner respectfully disagrees. Barkley's objects (user defined data types) are made secure by the attachment of object access types. The object access types make the objects secure by ensuring any access of the object conforms to defined security and permission attributes (Barkley, column 11 lines 40-56). Thus,

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Barkley's objects (user defined data types) are secure by the providing of object access types that maintain the object's security.

5. Applicant has argued on page 7 that Barkley fails to teach or suggest a database that "stores an instance of data according to the first data type in the database system." Applicant has further alleged that Barkley fails to suggest the storing of data in a database. Examiner respectfully disagrees. Barkley teaches that objects and their attached respective object access type (permission/security granting objects) are stored in a database (Barkley, column 13 line 62 – column 14 line 9). Thus, Barkley teaches a database that "stores an instance of data according to the first data type in the database system" (Barkley, column 13 line 62 – column 14 line 9).

6. The following rejection is substantially similar to that found in the office action dated 11/16/2004.

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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8. Claims 1-4 are rejected under 35 U.S.C. 102(e) as being anticipated by Barkley et al US Patent No. 6,202,066. Barkley discloses an implementation of role/group permission association using an object access type.

9. With regards to claims 1, 5, Barkley teaches the providing of a user-defined data type (Barkley, column 6 lines 17-18, column 11 lines 20-25 account information), providing security information for the user-defined data type (Barkley, column 7 lines 40-20), storing data instances according to the user-defined data type (Barkley, column 11 lines 20-25 account information), and associating the security information with the data instances (Barkley, column 7 lines 21-26).

10. With regards to claim 2, Barkley teaches the associating of the security information with each individual data instance (Barkley, column 7 lines 29-32, OAT associated with an object).

11. With regards to claims 3, 11, 13, Barkley teaches the associating of an access list containing a list of identifiers of authorized entities (Barkley, column 7 lines 36-41, users assigned permissions).

12. With regards to claims 4, 10, 15 and 22, Barkley teaches the providing of one or more functions to perform predetermined one or more tasks for the user-defined data type and invoking the one or more functions to process data instances according to the user-defined data type (Barkley, column 4 lines 40-56, close an account, read an account, write to files, delete files).

13. With regards to claims 6-7, 17, and 23, Barkley teaches everything described above and further teaches the receiving of a request to access the data and granting

access to the instance of data based on the security information (Barkley, column 7 lines 29-32).

14. With regards to claims 8, 18-19, Barkley teaches everything described above and further teaches the providing the user-defined data type in an object relational database system (Barkley, column 4 lines 53-56).

15. With regards to claim 9, Barkley teaches the storing of the user-defined data type in an object relational database system (Barkley, column 4 lines 53-56, column 11 lines 1-7, created file).

16. With regards to claim 12, Barkley teaches an authorized entity comprising an authorized user (Barkley, column 6 lines 3-5).

17. With regards to claim 14, Barkley teaches the invoking of the security function to remove an identifier from the security information (Barkley, column 8 line 66 – column 9 line 7).

18. With regards to claims 16, 20-21, Barkley teaches the providing of a second data type built upon the first data type where the second data type inherits the security information and one or more security functions of the first data type wherein the second data type further defines one or more additional security functions (Barkley, column 9 lines 48-55, column 8 lines 56-65).

Conclusion

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19. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

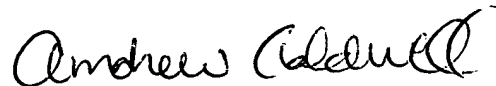
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew L. Nalven whose telephone number is 571 272 3839. The examiner can normally be reached on Monday - Thursday 8-6, Alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Morse can be reached on 571 272 3838. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Andrew Malven



ANDREW CALDWELL
SUPERVISORY PATENT EXAMINER